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ABSTRACT

The General Accounting Office (GAO) examined the status and scope of total quality management (TQM) in federal organizations by mailing questionnaires to the heads of 2,800 civilian and Department of Defense installations. According to the 2,277 usable responses, approximately 68% of federal installations are working on various phases of TQM. Although TQM was being initiated on a fairly wide scale, only about 13% of employees at the installations reporting implementing TQM were involved in TQM activities at the time of the survey. Employee issues and funding issues were cited as the biggest barriers to greater implementation of TOM. Installations that reported being further along in implementation also reported more involvement in TQM activities, such as training, improvement teams, and measuring performance than those installations that were in the early phases of implementing TQM. Although many respondents reported achieving benefits as a direct result of their TQM activities, the level of reported benefits achieved both externally and internally increased substantially for those installations that have progressed further in TQM implementation. (Twenty-one figures are included. Appendixes constituting more than 90% of this document contain the following: a detailed report summarizing the results of a GAO survey of federal TQM activities, a survey instrument, and a list of major contributors to the report.) (MN)

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QUALITY MANAGEMENT

Survey of Federal Organizations *

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United States General Accounting Office Washington, D.C. 20548

General Government Division

B-249779

October 1, 1992

The Honorable Donald Ritter House of Representatives

Dear Mr. Ritter:

This briefing report is the first in a series in response to your October 1991 request for us to examine Total Quality Management (TQM) in the federal government. At the outset, you asked that we perform a survey to obtain information on the status, scope, and benefits of federal TQM, as well as the obstacles that agencies encounter during implementation. We briefed you on the results of this survey on October 1, 1992. This briefing report contains the information we presented.

BACKGROUND

TQM is a management approach that strives to achieve continuous improvement of quality through organization wide efforts based on facts and data. The methods for implementing this approach have been advanced by the teachings of such quality leaders as W. Edwards Deming, Armand Feigenbaum, Kaoru Ishikawa, and J. M. Juran. For purposes of our survey, quality improvement efforts which have the same basic goals and processes as TQM but have different names, such as Total Quality Excellence and Total Quality Leadership are encompassed by the term "TQM."

Early interest and efforts in TQM in the United States occurred primarily in the private sector, where firms spurred by intense competition from Japan began to examine Japanese approaches to management. In the late 1970s and early 1980s, this enhanced competition stimulated U.S. attention to the role of TQM systems in improving quality. The increased interest in Japanese management methods was soon accompanied by research in the United States that documented that firms can also reduce their costs by improving quality. Although the federal government does not have the same type of competitive pressures that exist in the private sector, federal managers have begun to look at TQM as an approach that can help solve governmental management problems.



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We surveyed federal installations to examine the extent of TQM in the federal government. Installations, as defined by the Office of Personnel Management, are units with a specifically designated organization head who is not subject to on-site supervision by a higher level installation head and has been delegated some degree of authority in the performance of personnel management functions. Installation personnel management authority would include hiring for civilian employees and rewards and recognition for military and civilian personnel. Typical installations included Internal Revenue Service Centers and Air Force Logistics Centers.

RESULTS IN BRIEF

TQM is being implemented by a significant number of federal organizations; about 68 percent of the federal installations we surveyed reported they were working on various phases of TQM, with the greatest activity concentrated in the early phases. The remaining federal installations are not currently implementing TQM, although about half said they plan to in the future.

Although TQM is being initiated on a fairly wide scale, the depth of employee involvement is still thin. The 68 percent of federal installations that reported implementing TQM also reported that about 13 percent of their employees were involved in TQM activities at the time of our survey. Various respondents reported barriers to greater implementation of TQM, including employee issues and funding issues.

We analyzed the reported TQM activities, barriers and benefits in terms of the installations' reported TQM maturity phases—in other words, their degree of development and maturity. This analysis showed that installations that reported being further along in terms of implementing TQM also reported more involvement in TQM activities, such as training, improvement teams, and measuring performance than those which were in the early maturity phases. Also, respondents reported both fewer barriers and more employee involvement as they progressed further into TQM implementation. More importantly, although many respondents reported that they are achieving benefits as a direct result of their TQM activities, the level of reported benefits achieved both externally and internally increased substantially for installations that have progressed further in TQM implementation.

OBJECTIVES, SCOPE, AND METHODOLOGY

Our objective was to obtain information on the status and scope of TQM implementation in the federal government, the barriers to implementation, and the benefits being realized through the adoption of TQM practices. To accomplish our objective, we sent



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questionnaires to the heads of more than 2,800 civilian and Department of Defense installations. We asked the installation heads to self-assess their status and report on barriers to implementation and internal and external benefits realized as a result of TQM activities. We also made follow-up visits to a judgmental sample of 30 installations to determine the extent to which documentary support for TQM implementation efforts was available and to validate certain questionnaire responses. We did our work between March and September 1992 and in accordance with generally accepted government auditing standards.

As agreed with your office, unless you publicly release its contents earlier, we plan no further distribution of this report until 5 days from the date of this letter. At that time we will send copies of this report to the heads of departments and agencies included in our surve^{**}; interested congressional committees; the Directors of the Office of Management and Budget, Office of Personnel Management, and the Federal Quality Institute; and survey respondents. We will also make copies available to others upon request.

The major contributors to this report are listed in Appendix III. If you have any questions, please call me on (202) 275-8387.

Sincerely yours,

J. William Gadsby Director, Federal

Management Issues



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GAO U.S. General Accounting Office

SURVEY OF FEDERAL TOTAL QUALITY MANAGEMENT ACTIVITIES



GAO Scope and Methodology

Scope

 More than 2,800 civilian and DoD installations

Methodology

- Questionnaire sent to all installations (80% response)
- Validated questionnaire responses at 30 installations

APPENDIX I

GAO Topics To Be Covered

- Status of federal TQM
- Scope of TQM activities
- Benefits of TQM
- Barriers to ongoing efforts
- Observations



GAO Federal Total Quality Management

Reported Status of Federal TQM



APPENDIX I

STATUS OF FEDERAL TOM

Federal installations reported a wide level of TQM activity. As shown in page 10, about 68 percent of all respondents said they were involved in some TQM efforts. Also, this activity is new since most of these TQM activities were no more than 2 years old. In addition to the installations already involved, about half of the 32 percent of the installations without TQM activities said they plan to implement TQM in the future.

To more fully examine the status of TQM, we presented descriptions of TQM phases in terms of how far along or "mature" installations were in implementing TQM. These were obtained from research into various ways of describing where organizations were in their implementation efforts. The maturity phases are: Phase 1--Deciding whether to implement TQM, Phase 2--Just getting started, Phase 3--Implementation, Phase 4--Achieving results, and Phase 5--Institutionalization (see p. 11 and app. II). Respondents were asked to place their installation in one of the The results of this analysis (p. 12) shows maturity phases. that about half the installations reported being in the early stages--namely Phases 1 and 2. In terms of those organizations achieving significant results, about 18 percent were at Phases 4 and 5; only 40 judged themselves to be actually at Phase 5. Nineteen percent of Department of Defense installations reported being in Phases 4 and 5, and 16 percent of civilian installations reported being in those phases.

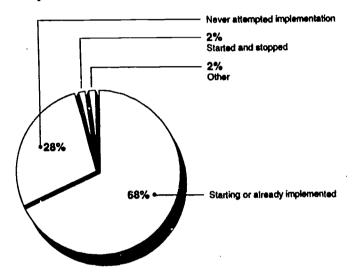
Moving from the early start-up efforts through implementation takes time. The number of years installations report that they have been implementing TQM is shown on page 13. The responses indicate that the first year is spent in the decision and start-up phases. The average age for Phase 3 installations was about 2.5 years, and Phase 4 was 3 years. Institutionalizing TQM, however, appears to require fairly long-term efforts. Phase 5 installations reported that they have been involved an average of slightly less than 5 years.

Finally, 28 percent of the installations reported that they never have attempted TQM. They were asked to identify barriers to implementation. We categorized the answers into leadership, training, strategic planning, employee involvement, measurement and analysis, customer focus and other issues. No category was a dominant barrier, as page 14 shows, but leadership issues were the most frequently mentioned category.



GAO Status of Federal TQM

Wide level of activity reported





GAO Status of Federal TQM

Phases of TQM implemetation

- Phase 1: Deciding whether to implement TQM
- Phase 2: Just getting started
- Phase 3: Implementation
- Phase 4: Achieving results
- Phase 5: Institutionalization

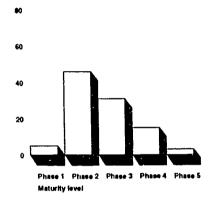


APPENDIX I

GAO Status of Federal TQM

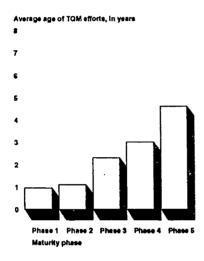
Most installations underway report being in early stages

100 Percent of organizations with TOM efforts



GAO Status of Federal TQM

Institutionalizing takes time





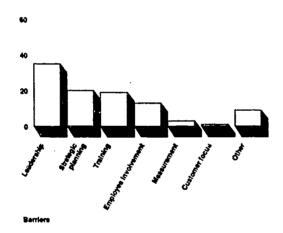
13

APPENDIX I

GAO Status of Federal TQM

Organizations not underway identify several barriers to initiating TQM

100 Frequency that barriers were identified



GAO Federal Total Quality Management

Reported Scope of TQM Activities

SCOPE OF TOM ACTIVITIES

Among those organizations that have TQM efforts, most have put a management and implementation structure in place, as shown on page 17. According to respondents, 82 percent of the installations have established quality councils, and 76 percent have established quality improvement teams.

We asked respondents about the extent of their involvement in 43 activities commonly undertaken by organizations involved in TQM. We used the Baldrige and the Federal Quality Institute Awards to categorize activities expected of organizations involved in quality management. As shown on page 18, the categories were leadership, employee training and recognition, strategic planning, empowerment and teamwork, measurement and analysis, customer focus, and quality assurance. As pages 19-to-25 depict, installations reported that these TQM activities increased substantially with the maturity phase. In general, organizations identifying themselves as more mature in TQM also more frequently said they were doing these 43 activities.

We also asked about employee involvement at the time of our survey. Respondents indicated that about 13 percent of the employees (20 percent of the managers and 13 percent of the nonmanagers) were actively involved in such TQM activities as teams, councils, and teaching, as shown on page 26. Phase 4 and Phase 5 organizations, on the other hand, reported an overall 25 percent employee involvement rate.

Incentives and training linked to participation appear to be used more frequently in more mature installations (see pp. 27 and 28). On average, 42 percent reported providing teams with rewards and recognition. The average increases to 79 percent for Phase 4 and Phase 5 organizations. Further, 33 percent of all installations reported having quality goals in employee performance plans, whereas 60 percent of the Phase 4 and Phase 5 organizations reported having such quality goals. Finally, 57 percent reported training in group process and problem-solving skills (p. 28); while 88 percent of Phase 4 and Phase 5 organizations reported such training.



¹It should be noted that each category is simply a composite average of all activities within it, and as such does not precisely reflect the rate of change for all activities within a category.

GAO Scope of TQM Activities

Among 68% of installations that have TQM efforts:

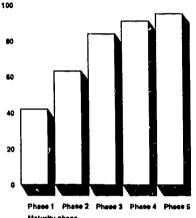
- 82% have Quality Councils
- 76% have Quality Improvement Teams

Installations consistently report undertaking more key activities as TQM maturity increases

- Key activities from Federal Quality Institute and Baldrige Award criteria
- Leadership, Training, Planning Empowerment, Measurement, Customer Focus, and Quality Assurance

Leadership activities increase with maturity phase

Percent of respondents performing key activity-composite index

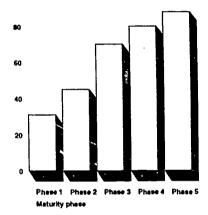


Maturity phase

Includes such activities as establishing quality councils and senior management awareness training.

Employee training/ recognition increases with maturity phase

100 Percent of respondents performing key activity-compate index

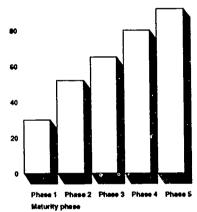


Includes such activities as TQM training needs assessments and formal rewards for teams.



Strategic planning activities increase with maturity phase

100 Percent of respondents performing key activity-composite index



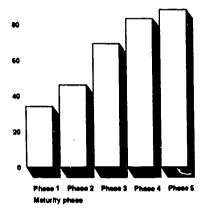
Includes such activities as developing quality vision, mission, and policy statements and developing , an implementation plan.



GAO Scope of TQM Activities

Empowerment and teamwork increase with maturity phase

100 Persent of respondents performing key activity-composite index

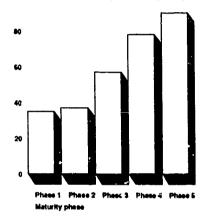


Includes such activities as establishing teams and involving unions.

GAO Scope of TQM Activities

Measurement and analysis activities increase with maturity phase

100 Percent of respondents performing key activity-composite index

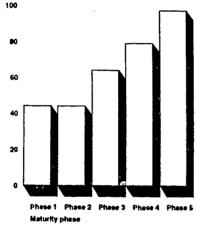


Includes such activities as developing internal and external measures and analyzing systems and processes.

GAO Scope of TQM Activities

Customer focus activities increase with maturity phase

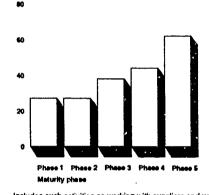
Percent of respon unts performing key activity-composite index



Includes such activities as identifying external , ${\it n}{\rm d}$ internal customers and developing methods to monitor customer satisfaction.

Quality assurance activities increase with maturity phase

100 Percent of respondents performing key activity-composite index



Includes such activities as working with suppliers and using such methods as Quality Function Deployment to enhance ability to meet customer requirements.



Current employee participation across units with TQM efforts

- 13% of all employees, 20% of all managers, and 13% of all nonmanagers are involved in TQM activities, such as facilitation, councils, teams, or teaching
- In Phase 4 and Phase 5 installations, 25% of all employees participate

Incentives for participation vary by phase

- 42% of installations recognize and reward teams (79% of Phase 4 and 5 reward teams)
- 33% of installations have quality goals in employee performance plans (60% of Phase 4 and 5 have goals)



Training for participation increases with maturity phase

 57% of TQM installations offer tools or group process training to employees (88% of phase 4 and 5 offer tools or group process training)

APPENDIX I

GAO Federal Total Quality Management

Reported Benefits of TQM

BENEFITS OF TOM

We examined TQM benefits in two ways: (1) effect on external customers as reflected by overall organizational performance and (2) effect on internal customers as reflected by internal operating conditions. We asked respondents to assess TQM's effect on organizational performance in terms of productivity, reductions in costs, quality of products and services, overall service to customers, customer satisfaction, and timeliness. To depict the overall impact, we developed an index that is the average of responses to our questions on the degree of impact.

As shown on page 32, most organizations said TQM has enhanced organizational performance—about 60 percent reported a positive to very positive impact, although a third said it was too early to judge. Of particular note, no significant negative effects were reported. One example of customer service improvement was noted during our installation visits to the Veterans Affairs Insurance Center in Philadelphia. This office had reduced from 11 percent to less than 6 percent the frequency that veterans had to make follow-ups on their inquiries regarding such things as insurance benefits, and improvements were continuing. In another example at the Ogden Air Logistics Center, the failure rate on a bomb release was reduced from over 80 percent to less than 5 percent after an employee simply called the customer to determine if there were any problems with the item.

Also, the reported impact of TQM on organizational performance increases as maturity increases. Pages 33 and 34 show the six different organizational performance measures and the pattern of greater impact as organizations mature.

For internal operating conditions, we asked the installations to identify the impact of TQM on each of 13 internal operating conditions, such as communications and labor-management relations (see app. II for a complete list). To view the benefits, we developed an index in the same manner as for the organizational performance indicators. As shown on page 35, respondents said that TQM was affecting internal operating conditions in a positive manner, but not strongly. Also, about one-third of the respondents said it was too early to judge the impact.

One example of the benefits of improving internal operating conditions was provided during our visit to the Internal Revenue Service's Ogden Service Center. According to Center officials, group process and problem solving-skills were used for 2 years by a team that worked on taxpayer payment problems. During that period the team addressed a series of problems such as the posting of taxpayer payments to the wrong accounts. This effort



helped reduce payment tracers by over 1 million and also reduced erroneous payment due notices to taxpayers. In another example of quality improvement team activities, officials at the Defense Industrial Supply Center in Philadelphia described how a team has been given the task of identifying and reducing unnecessary reports and paperwork. The Center reported that the team's efforts have reduced paper consumption by millions of sheets.

Internal conditions also improve with TQM maturity, according to respondents. Pages 36 and 37 show the top six internal conditions that were reported as affected positively to a moderate or very great degree by TQM. They are attention to customers' requirements, group process and problem-solving skills, internal communication, participatory management style, timeliness of internal processes, and efficiency. Similar to the organizational performance area, benefits reported by mature organizations were double and triple the benefits reported by Phase 1 and Phase 2 organizations.





GAO Benefits of TQM

Most installations report positive impact on performance

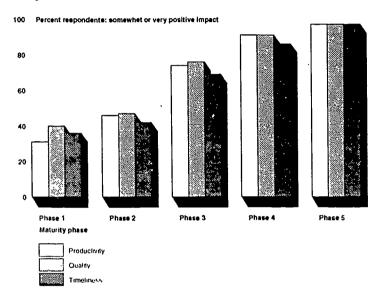
Organizational performance is defined as the composite of productivity, quality, timeliness, cost reduction, overall customer service, and customer setisfaction factors.



APPENDIX I

GAO Benefits of TQM

Individual performance factors improve with TQM maturity

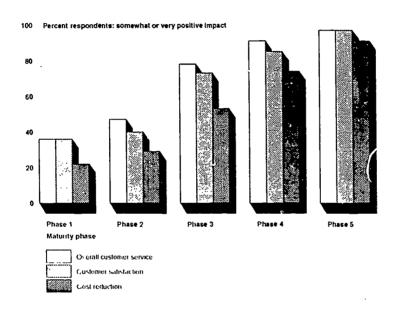




APPENDIX I

GAO Benefits of TQM

Individual performance factors improve with TQM maturity



GAO Benefits of TQM

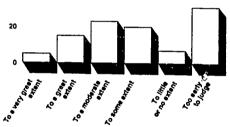
Most installations report positive impact on internal operating conditions

100 Percent respondents: extent of positive impact-composite index

•v

60

40

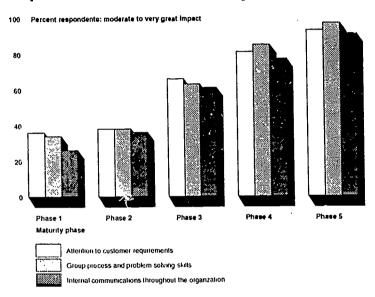


Extent TQM has had a positive impact on internal operating conditions

Internal operating conditions include attention to customer requirements, group process and problem solving, internal communications, participatory management, timeliness of internal processes, and improved management decisions through more information.

GAO Benefits of TQM

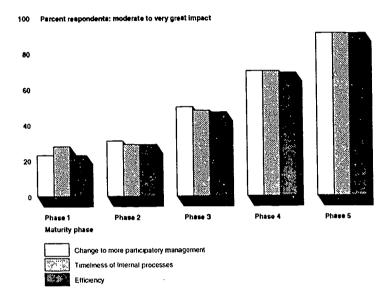
Internal operating conditions improve with TQM maturity





GAO Benefits of TQM

Internal operating conditions improve with TQM maturity





GAO Federal Total Quality Management

Reported Barriers to Ongoing Efforts

Barriers to Ongoing Efforts

We asked installations about the significance of 21 potential barriers to implementing TQM that had been identified through our research. Page 40 shows the nine barriers said to be a moderate to very major problem by 39 percent or more of the respondents. Many of these key barriers were related to employee issues such as, (1) employees don't believe they are empowered to make changes, (2) employees lack sufficient information on how to use TQM tools, and (3) employees lack information and training on TQM concepts and theory.

Our analysis of the data also showed that respondents believed barriers decrease as their involvement in TQM increases. For example, for the barrier "employees don't believe they are empowered," about two-thirds of the respondents in Phases 1, 2, and 3 felt it was moderate to very great. However, 47 percent of the Phase 4 installations saw this as a barrier, and only 23 percent of the Phase 5 organizations reported it as a barrier.

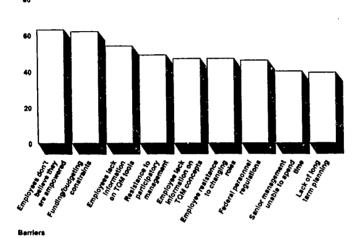
Pages 41, 42, and 43 show the nine individual barriers and the percent of respondents in each phase who believed they were moderate to very major problems. Again, responses for all nine barriers show that the barriers are considered less significant as maturity increases.



GAO Barriers to Ongoing Efforts

Various barriers impede ongoing TQM efforts

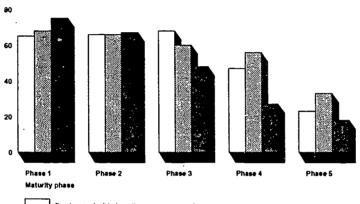
100 Percent respondent stating barrier is a moderate to very major problem



GAO Barriers to Ongoing Efforts

Barriers reduced as maturity increases

100 Percent respondente: moderate to very major problem



Employees don't believe they are empowered

Funding/budgeting constraints

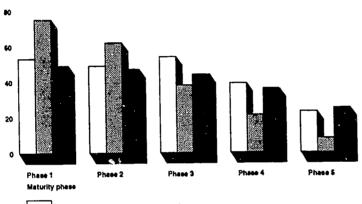
Employees lack information on TOM tools

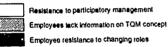


GAO Barriers to Ongoing Efforts

Barriers reduced as maturity increases

100 Percent respondents; moderate to very major problem



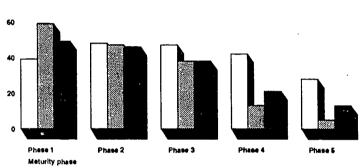




GAO Barriers to Ongoing Efforts

Barriers reduced as maturity increases

100 Percent respondents: moderate to very major problem



Federal personnel regulations

Senior management unable to spend time

Lack of long term planning



GAO Federal Total Quality Management

Observations



Observations

Clearly, there appears to be a very active interest in TQM throughout the federal government. About two-thirds of the federal installations we surveyed reported that they were involved in some way, and another 15 percent are planning TQM implementation.

Although there is wide interest, TQM efforts are generally new, the average reported age being less than 2 years. This newness is reflected in employee participation levels that are generally low compared to the potential levels reported by mature organizations.

Analysis of the responses to our questionnaire indicates that as the organizations mature in implementing TQM, and as they invest time and effort in the activities needed to carry on TQM initiatives, they find that the barriers become less difficult and they reap greater benefits.



GAO Observations

- Active interest in TQM
- Very new to federal installations
- Organizations that have invested time and effort report barriers less difficult
- Organizations that have invested time and effort report greater benefits





U.S. General Accounting Office

Survey of Federal Agencies - Status of Total Quality Management (TQM) Initiatives

INTRODUCTION

The U.S. General Accounting Office (GAO), an agency of Congress is surveying Federal installations to collect information on the status and scope of Total Quality Management (TQM) implementation in the Federal government, the barriers to implementation, and the benefits realized through the adoption of TQM practices. The results of this survey will be included in a report requested by Congress.

We recognize that not all installations receiving this questionnaire will be involved in TQM activities. A small number of questions, which can be quickly answered, still must be completed. Please complete these questions by following the appropriate instructions.

Most of the questions in this questionnaire can be easily answered by checking boxes or filling in blanks. Space has been provided at the end of the questionnaire for any additional comments. A glossary of terms relating to TOM used throughout the questionnaire is included on page 2. Please refer to this glossary before starting to fill out the questionnaire.

Your responses will be combined with others and reported in summary form. No information that could specifically identify your installation will be reported. The questionnaire is numbered only to aid us in our follow-up efforts and will not be used to identify you with your responses. We cannot develop meaningful information without your frank and honest answers.

To ensure that information in our report to Congress is complete and accurate, we will validate responses to certain questions at a randomly selected sample of installations.

If you have any questions about anything in this questionnaire, please call Mr. Dom Nieves at (202) 275-5323 or (202) 275-6511.

Please return the completed questionnaire in the enclosed preaddressed envelope within two weeks of receipt. In the event the envelope is misplaced, the return address is:

> U.S. General Accounting Office General Government Division Mr. Dom Nieves 441 G Street. N.W. Room 3150 Washington, D.C. 20548

Thank you for your assistance.

Please Note: Answer all of the questions included in the questionnaire <u>for your installation</u> <u>only</u> as designated in the label below. Installation is defined in greater detail in the glossary on page 2. Do <u>not</u> attempt to answer for your entire Department, Service, Agency, or other installations located at your site.

ID#-Rec 1 (1-5)



GLOSSARY

Installation - An installation is defined by OPM as a unit with a specifically designated organizational head and/or administrative supervisor who is <u>not</u> subject to on-site supervision by a higher level installation head and who has been delegated some degree of authority in the performance of personnel management functions.

Total Quality Management (TQM) - A management approach to long-term success through organization-wide efforts of continuous improvement. The methods for implementing this approach are found in the teachings of such quality leaders as Philip Crosby, Edwards Deming, Armand Feigenbaum, Kaoru Ishikawa, and J.M. Juran. Even though this approach may have different names, it most often includes the following five concepts:

- -- Customer Driven Quality
- -- Strong Quality Leadership
- -- Continuous Improvement
- -- Actions Based on Facts, Data, and Analysis
- -- Employee participation

For the purposes of this study, quality improvement efforts which have the same basic goals and processes of TQM but have a different name such as Total Quality Excellence, Total Quality Leadership, Quality Management, or Continuous Improvement are encompassed by the term "TQM".

Quality Council - Comprised of top management and/or other staff and provides direction, structure, and oversight to the quality improvement effort. It may also be called an Executive Steering Committee or an Executive Steering Group.

Quality Management Boards - A second-tier structure often used in TQM implementation which is formed to support the Quality Council by focusing on tactical issues or problem solving. Members of Quality Management Boards, or Quality Sub-councils as they are sometimes called, are predominantly, if not exclusively from management.

TQM Team - Any team formed to facilitate the implementation of TQM. These may include functional, cross-functional, task, or process improvement teams and are commonly referred to as Process Action Teams (PATs) or Quality Improvement Teams (QITs).

Benchmarking - Measuring performance against that of best-in-class installations or companies, determining how the best-in-class achieve those performance levels, and using the information as the basis for your own installation's strategies, and implementation.



I. BACKGROUND

	Please enter the name, title, and phone number of person completing this survey:
	Name:
	Title:
	Phone number: ()Area Code
ı.	Total number of employees (management, staff, administrative, etc.) at this installation:
	Sum = 1,483,557 Federal Civilian Employees (FTE's)
	Sum = 785,560 Military Personnel
2.	Total number of people at this installation who manage or supervise at least one other individual:
	N=387,455 Managers/Supervisors
3.	Primary service, product, or function provided by this installation:



II. CURRENT STATUS OF TQM AT YOUR INSTALLATION

The purpose of this section is to assess the current status of TQM in general at your installation. We realize that different units may be at different phases or stages of TQM development but we ask you to respond for your installation overall.

Please indicate which of the follow	wing applies to your installation.	(CHECK ONE.)	
N=2277			
28% No unit within this ins to implement TQM	stallation has ever attempted		
	Does your installation plan to implement TQM in the future?		
	N=625		
	17% 1. Yes, within the 37% 2. Yes, at some pr 14% 3. No 32% 4. Do not know		(SKIP TO SECTION V ON PAGE 18.)
68% Efforts to implement implementation	TQM are currently under way or has taken place	×GO TO QUESTION 5 I	BELOW.)
2% The installation attem at an earlier date, but TQM effort is now in	pted to implement TQM in some it was discontinued. No current place,	form	
	Does your installation plan to implement TQM in the future?	,	·
	N=39		
	15% 1. Yes, within the 33% 2. Yes, at some p 18% 3. No 33% 4. Do not know		(SKIP TO SECTION III ON PAGE 11.)
2% Other (Please describ	De):	(SKIP '	TO QUESTION 6 ON PAGE 5.)
5. In what year did your installatio	n officially start implementation (of TQM as defined in the gl	ossary?
N=1473	1950 - 1985 1986 1987 1988 1989 1990 1991	2 % 4 % 7 % 12 % 21 % 35 % 18 %	
* Less than 1 percent.			



 Using the following descriptions, in what phase of TQM implementation would you classify the units that comprise your installation? (PLEASE CHECK ONE BOX FOR EACH PHASE LISTED BELOW.)

Phases or Stages of TQM Implementation	No units (1)	Less than half of the units (2)	More than half of the units (3)	Most or all units
Phase I - Deciding whether to implement TQM Management is researching or deciding whether to implement TQM, but no formal decisions or activities have been initiated by top management. A few employees may have attended quality conferences or network meetings but the installation as a whole has yet to be informed or involved in a TQM project.	66 %	22 %	13 %	0 %
Phase II - Just getting started TQM efforts are in the early planning and implementation phase. Management has made a formal decision to start TQM and has communicated this to the organization. The organization's mission and vision have been articulated. A few quality structures such as quality councils, steering committees, or teams have been established and some awareness training has been given. Preliminary quality planning has been done. Pilot programs or newly initiated installation-wide efforts to improve quality are included in this phase. N=1411	14 % _	23 %	. 13 %	50 %
Phase III - Implementation Specific TQM processes designed to improve quality are in place. TQM training for management and employees is beyond the orientation/awareness stage and focuses on TQM tools and techniques, and team-related activities. Measures of quality and productivity have been identified and specific goals have been set. N=1329	23 %	36 %	17 %	25 %
Phase IV - Achieving Results The installation has a sustained TQM effort and has begun to achieve and document significant results. Systemic, cross-functional and/or organizational achievements from the TQM effort have been realized. N=1291	42 %	38 %	10 %	11 %
Phase V - Long Term Institutionalization The installation has incorporated all of the principles and operating practices of TQM throughout much of the organization. The installation has documented substantial improvements in quality and customer satisfaction resulting from these efforts and is making consistent and continuous improvement throughout. An installation in this phase may have been recognized as a Quality Improvement Prototype or is a recipient of the President's Award for Quality. N=1214	76 %	16 %	4 %	4 %

7.			nses to question 6 above, please place your installation <u>as a whole</u> into one of the phases of TQM ECK ONE.)
	N=1592		
	5 %	1.	Phase I - Deciding whether to implement TQM
	46 %	2.	Phase II - Just getting started
	31 %	3.	Phase III - Implementation
	15 %	4.	Phase IV - Achieving results
	3 %	5.	Phase V - Long term institutionalization







8. In regard to TQM, please indicate which of the following activities have ever been undertaken to any degree at your installation? (CHECK ONE BOX IN EACH ROW.)

Please note, the responses to this question may be validated at some installations at e later date. If your installation is selected, we will be contacting you shortly.

		Undertaken to any degree?				
Installation Activities or Efforts	Yes	No, but it is planned	No, and it is not	Do not know		
	(1)	(2)	(3)	(4)		
eadership						
The feasibility of implementing TOM was researched.	1573 88 %	3 %	5 %	5 %		
 Senior management made the decision to implement To at your installation. 	QM 1588 94 %	4 %	1 %	2 %		
 Senior management established a quality council, steer committee or similar body to direct the quality improvement effort. 	ing 1585 82 %	11 %	5 %	2 %		
Senior management received TQM Awareness Training N=	g. 1 59 1 91 %	5 %	2 %	2 %		
e. Senior management participated in a retreat to learn at TQM.	out 1577 63 %	8 %	21 %	7 %		
f. Middle managers received TQM Awareness Training.	1587 76 %	18 %	4 %	2 %		
g. Commitment of senior management to quality is documented and communicated to employees.	:1583 84 %	13 %	1 %	2 %		
h. An executive level Quality Council or Steering Communication has targeted work processes for improvements.	nittee =1587 60 %	29 %	6 %	4%		
i. Your installation utilizes most of the principles of qua management throughout the installation.	ality =1587 52 %	44 %	2 %	3 %		
j. Your installation has adopted significant new policies are designed to further quality management principles.	which =1583 51 %	41 %	4 %	4 %		
k. Members of your installation actively share technique lessons learned both within and outside the installation N	es and on. =1587 66 %	27 %	3 %	4 %		

Continued on next page.



Question 8 (Continued) In regard to TQM, please indicate which of the following activities have ever been undertaken to any degree at your installation? (CHECK ONE BOX IN EACH ROW.)

			Undertaken t	o any degree?	
_	Installation Activities or Efforts	Yes	No, but it is planned	No, and it is not planned	Do not know
		(1)	(2)	(3)	(4)
Em	ployee Training and Recognition		,		
a.	At least a few managers or employees attended quality conferences or enrolled in a TQM training course prior to the implementation of TQM. N=1589	92 %	3 %	3 %	3 %
ь.	One or more representatives from your installation attends quality network meetings outside of the installation. N=1583	76 %	11 %	9 %	4 %
c.	Your installation did an assessment of its TQM training needs. N=1579	66 %	21 %	10 %	3 %
d.	Non-supervisory employees received TQM Awareness Training. N=1588	65 %	26 %	7 %	2 %
c.	A TQM training plan guides your quality training efforts. N=1580	52 %	32 %	12 %	4 %
f.	Group processes or TQM tools training is offered to employees throughout the installation as needed. N=1575	57 %	34 %	7 %	3 %
g.	TQM teams are formally recognized and rewarded within your installation. N=1577	42 %	46 %	8 %	.3 %
ħ.	Your installation's reward and recognition systems encourage management to be involved in quality efforts (e.g., performance standards related to TQM are included in performance management reviews). N=1586	43 %	41 %	9 %	6 %
i.	Quality performance goals have been incorporated into employees' performance plans. N=1582	33 %	45 %	13 %	9 %

Continued on next page.



Question 8 (Continued) In regard to TQM, please indicate which of the following activities have ever been undertaken to any degree at your installation? (CHECK ONE BOX IN EACH ROW.)

			Undertaken to any degree?				
	Installation Activities or Efforts		Yes	No, but it is planned	No, and it is not	Do not know	
			(1)	(2)	planned (3)	(4)	
Sti	ategic Planning				Seed!		
a.	Your installation developed quality vision, miss policy statements.	ion, and N=1588	77 %	18 %	4 %	1 %	
b.	A TQM implementation plan was developed.	N=1585	64 %	27 %	6 %	3 %	
c.	Team goals are related to the vision and improvegoals of your installation.	vement N=1576	59 %	33 %	5 %	3 %	
d.	Your installation actively benchmarks with othe organizations to improve the primary processes installation.		30 %	47 %	16 %	7 %	
e.	A quality strategic plan exists or quality princip included in your installation's overall strategic		52 %	36 %	7 %	5 %	
f.	Your installation uses strategic planning process include vision statements to indicate where it si in the next five years (e.g., Hoshin planning).		48 %	35 %	11 %	6 %	

			Undertaken	to any degree?	
	Installation Activities or Efforts	Yes	No, but it is planned	No, and it is not	Do not know
		(1)	(2)	planned (3)	(4)
Éø	Conservation and Teamwork **		1 00 (100)		*
a.	The union was involved in the early stages of implementation. (If no unions, please skip to b.) N=1258	59 %	17 %	15 %	9 %
b.	TQM teams are established by management to work on processes or problems. N≖1583	76 %	19 %	4 %	1 %
c.	One or more TQM teams have completed a full cycle of a formalized improvement process (e.g., the Seven Step Improvement Process or the Plan-Do-Check-Act (PDCA) cycle]. N=1580	47 %	40 %	7 %	5 %
d.	Employee satisfaction is assessed on a regular basis. N=1581	48 %	39 %	10 %	4 %
e.	Most employees are involved in your installation's quality initiative. N=1582	43 %	50 %	5 %	2 %
f.	Product/service innovation is encouraged throughout your installation. N=1586	81 %	15 %	2 %	2 %

Continued on next page.



APPENDIX II

Question 8 (Continued) In regard to TQM, please indicate which of the following activities have ever been undertaken to any degree at your installation? (CHECK ONE BOX IN EACH ROW.)

		Undertaken to any degree?				
	Installation Activities or Efforts	Yes	No, but it is planned	No, and it is not	Do not know	
		(1)	(2)	planned (3)	(4)	
Me	Secure and Asslyr's	•				
a.	An assessment was done to evaluate your installation's readiness and/or culture for TQM implementation. N=1585	51 %	15 %	25 %	9 %	
b.	Analysis of systems and processes were done in order to streamline operations or improve quality. N=1587	54 %	36 %	7 %	4 %	
c.	Internal measures of quality and productivity are developed at your installation. N=1586	57 %	37 %	4 %	2 %	
d.	External measures of quality and productivity are developed at your installation. N=1581	45 %	41 %	9 %	5 %	
€.	Continuous improvement in your installation's primary processes and products/services is documented. N=1578	47 %	44 %	5 %	4 %	

			Undertaken to any degree?					
	Installation Activities or Efforts		Ye	28	No, but it is planned	No, and it is not planned	Do i	
			(1)		(2)	(3)	(4)	
Ci	erman Promação (SP)							
	The major <u>internal</u> customers of your installation and their requirements have been identified. N=1	1587	66	%	29 %	3 %	1	%
b.	The major external customers of your installation and their requirements have been identified. N=1	1586	71	%	25 %	3 %	2	%
c.	Methods to measure and monitor external customer satisfaction have been implemented. N=1	1584	44	%	48 %	6 %	3	%
d.	Your installation has mechanisms in place to better anticipate the customer's needs.	1582	45	%	45 %	6 %	5	%

Continued on next page.

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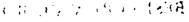
APPENDIX II

Question 8 (Continued) In regard to TQM, please indicate which of the following activities have ever been undertaken to any degree at your installation? (CHECK ONE BOX IN EACH ROW.)

	Undertaken to any degree?					
Installation Activities or Efforts	Yes	No, but it is planned	No, and it is not planned	Do not know		
	(1)	(2)	(3)	(4)		
Quality Assurance						
a. Your installation works with suppliers to improve quality. N=1575	55 %	23 %	14 %	7 %		
b. Your installation uses such methods as Quality Function Deployment and Quality Policy Deployment to enhance			_			

		Undertaken to any degree?				
	Installation Activities or Efforts	Yes	No, but it is planned	No, and it is not planned	Do not know	
			(2)	(3)	(4)	
Re	enite		-			
a.	Early quality improvement goals have been met and new goals have been set. N=1571	43 %	47 %	6 %	3 %	
b.	Your installation has applied for the Quality Improvement Prototype or the President's Award for Quality. N=1572	9 %	27 %	55 %	9 %	
c.	Your installation has been selected as a finalist or as a recipient of a Quality Improvement Prototype or the President's Award for Quality. N=1552	4 %	25 %	59 %	12 %	
đ.	Improvements in processes and substantial cost savings as a result of your installation's quality initiative have been documented. N=1570	34 %	48 %	11 %	7 %	
e.	Improvements in work processes are implemented throughout your installation wherever appropriate. N=1579	71 %	24 %	3 %	2 %	
ſ.	Outside organizations use one or more of your processes for benchmarking. N=1567	19 %	19 %	23 %	40 %	

		Undertaken	to any degree?	
Installation Activities or Efforts	Yes	No, but it is planned	No, and it is not planned	Do not know
	(1)	(2)	(3)	(4)
Other		•		
a. A TQM expert was contacted for more information. N=1582	83 %	5 %	10 %	2 %
b. TQM experts were brought in to assist with TQM training or implementing the quality process. N=1583	72 %	11 %	15 %	2 %





III. BARRIERS AND AIDS TO TQM IMPLEMENTATION

Organizations often encounter barriers while attempting to produce change. The purpose of this section is to gather information about problems that may have acted as barriers to implementing TQM as well as to cover some areas that assisted in the implementation of TQM at your installation.

 Listed below are some barriers to the implementation of TQM. How small or large a problem have the following been during any phase of TQM implementation at your installation? (CHECK ONE BOX IN EACH ROW.)

	Leadership Barriers	No problem at all (1)	Small problem	Moderate problem	Major problem (4)	Very major problem (5)	Not Applicable (6)
a.	Management above the installation level does not support TQM. N=1623	60 %	16 %	13 %	4 %	2 %	5 %
b.	Turnover of management above the installation level. N=1620	58 %	22 %	10 %	4 %	1 %	6 %
c.	Insufficient support for TQM among installation managers. N=1620	32 %	29 %	27 %	8 %	2 %	3 %
d.	Commitment to change (to TQM) not effectively communicated by senior management at the installation. N=1623	47 %	25 %	15 %	7 %	2 %	3 %
e.	Senior management at the installation unable to spend sufficient time on TQM. N=1619	29 %	29 %	25 %	12 %	4 %	2 %
f.	Turnover of senior management at the installation. N=1616	57 %	23 %	10 %	5 %	2 %	4 %
g.	Other - Please specify: N=328	4 %	4 %	19 %	21 %	26 %	26 %

	Employee Training and Recognition Barriers	Ne prob at a	lem all	Small problem	Moderate problem	Major problem (4)	Very major problem (5)	Not Applicable (6)
а.	Employees have insufficient information and training on the theory, concepts, and design of TQM. N=1625	19	%_	28 %	31 %	13 %	4 %	5 %
b.	Employees have insufficient information on how to implement TQM and use TQM tools. N=1625	13	%	27 %	35 %	16 %	4 %	5 %
c.	Employees do not believe they are empowered to make changes. N=1624	9	%	24 %	36 %	20 %	7 %	5 %
d.	Other - Please specify: N=255	2	%	2 %	20 %	20 %	25 %	32 %

(Continued on next page.)



Question 9 (Continued) How small or large a problem have the following been during any phase of TQM implementation at your installation? (CHECK ONE BOX IN EACH ROW.)

	Strategic Planning Barriers	No problem at all (1)	Small problem	Moderate problem	Major problem (4)	Very major problem (5)	Not Applicable (6)
a.	Lack of a long-term planning approach. N=1618	29 %	27 %	25 %	11 %	4 %	5 %
b.	Disconnect between strategic quality plan goals and the installation's other strategic plans. N=1614	30 %	24 %	23 %	10 %	3 %	10 %
c.	Funding/Budgeting constraints. N=1619	12 %	23 %	29 %	20 %	13 %	3 %
d,	Other - Please specify: N=196	3 %	5 %	12 %	18 %	20 %	42 %

	Empowerment and Teamwork Barriers	No problem at all (1)	Small problem (2)	Moderate problem	Major problem (4)	Very major problem (5)	Not Applicable (6)
3.	Resistance to moving toward a participatory style of management. N=1620	17 %	32 %	34 %	11 %	3 %	3 %
b.	Problems due to federal personnel regulations. N=1617	27 %	23 %	24 %	15 %	7 %	5 %
c.	Employees' resistance to changing roles or changing organizational structures. N=1621	14 %	39 %	35 %	8 %	1 %	3 %
d.	Employee organizations/unions resistant to TQM. N=1606	44 %	22 %	11 %	5 %	4 %	15 %
e.	Other - Please specify: N=158	3 %	2 %	11 %	14 %	18 %	52 %

(Continued on next page.)



Question 9 (Continued) How small or large a problem have the following been during any phase of TQM implementation at your installation? (CHECK ONE BOX IN EACH ROW.)

	Measurement and Analysis Barriers	No problem at all (1)	Small problem (2)	Moderate problem (3)	Major problem (4)	Very major problem (5)	Not Applicable (6)
a.	Resistance to measuring processes. N=1616	24 %	29 %	25 %	9 %	2 %	10 %
b.	Resistance to measuring employee attitudes. N=1615	31 %	31 %	22 %	4 %	1 %	11 %
c.	Management unfamiliar or uncomfortable with statistics and measurement techniques. N=1618	25 %	29 %	24 %	10 %	3 %	8 %
d.	Other - Please specify: N=157	4 %	•	13 %	20 %	12 %	51 %

^{*} Less than 1 percent.

	Customer Focus Barriers	No problem at all (1)	Small problem (2)	Moderate problem	Major problem (4)	Very major problem (5)	Not Applicable (6)
a .	Resistance to soliciting external customer feedback. N=1615	45 %	27 %	14 %	3 %	1 %	10 %
ъ.	Measures of satisfaction from external customers difficult or impossible to get. N=1611	26 %	31 %	22 %	9 %	3 %	10 %
c.	Other - Please specify: N=148	2 %	1 %	18 %	11 %	13 %	55 %

10.	At your installation, in order to overcome any of the barriers listed in the previous question did you require or are you
	currently using assistance provided by federal agencies, such as the Federal Quality Institute (FQI), OPM, OMB, etc.?
	(CHECK ONE.)

N-	-1.	41	6

27% 1. Yes

73% 2. No



11. Please indicate how helpful or not the following activities were in preparing your installation for the implementation of TQM. (CHECK ONE BOX IN EACH ROW. IF YOUR INSTALLATION DID NOT TAKE PART IN AN ACTIVITY, CHECK BOX NUMBER 1 FOR THAT ACTIVITY.)

		Did not take part in this activity (1)	Extremely helpful (2)	Very helpful (3)	Moderately helpful (4)	Of little help (5)	Not heipful at all (6)
a.	Members of management attended TQM training. N=1610	7 %	43 %	30 %	17 %	3 %	•
b.	Your installation talked to consultants about implementing TQM. N=1614	27 %	28 %	24 %	18 %	4 %	•
c.	Your installation <u>hired consultants</u> to help with the planning, training, or implementation process. N=1612	51 %	21 %	16 %	10 %	3 %	*
d.	Representatives from your installation <u>visited</u> companies, agencies, or other installations who were successful at implementing TQM. N=1615	45 %	18 %	19 %	16 %	3 %	•
e.	Management formed a team to investigate and study how to best implement TQM within the installation. N=1614	45 %	22 %	22 %	10 %	1 %	•
f.	Management made a formal statement of policy on TQM. N=1604	27 %	27 %	23 %	18 %	5 %	•
g.	Anything else? - Please specify: N=154	23 %	44 %	19 %	10 %	0 %	4 %
	<u>N=</u> 35	26 %	46 %	11 %	6 %	0 %	11 %

^{*} Less than 1 percent.

12.	At your is	nstall	ation a	re there <u>currently</u> any TQM efforts at <u>any</u> stage of development or implementation?	(CHECK C'NE
	N=1552				
	91%	1.		Yes> (CONTINUE WITH QUESTION 13.)	
	9%	2.		No> (SKIP TO SECTION V ON PAGE 18.)	



Teams are typically used to involve the work force in the implementation of TQM. A TQM team may be defined as any team formed to facilitate the implementation of TQM. TQM teams may be functional, cross-functional, or self-managed. Three of the more common types of teams are Process Action Teams (PATs), Process Improvement Teams (PITs), and Quality Improvement Teams (QITs).

- 13. Please provide the following information about the current use of teams at your installation.
 - a. How many TQM teams of any type are currently operating at your installation? (ENTER NUMBER. IF NONE, ENTER ZERO "0". IF NECESSARY, AN APPROXIMATION WILL SUFFICE.)

N=19,360 Teams (NOTE: IF ZERO "0" ENTERED, GO TO QUESTION 11.)

b. How many of your installation's employees (including management) are currently serving on at least one TQM team of any type? (ENTER NUMBER. IF NECESSARY, AN APPROXIMATION WILL SUFFICE.)

N=143,473 Employees

c. How many of the current participants on all teams are managers or supervisors? (ENTER NUMBER. IF NECESSARY, AN APPROXIMATION WILL SUFFICE.)

N=35,393 Participants

d. Please indicate the types of teams that are active within your organization.

			active? or each row.)
		Yes (1)	No (2)
a .	Cross-functional (inter-unit) teams that work to improve processes which cross unit lines within the installation. N=1225	89 %	11 %
b.	Functional teams that work to improve processes within a specific function or unit within the installation, N=1218	83 %	17 %
c.	Teams established on an ad hoc basis to address a problem or accomplish a specific task. N=1212	86 %	14 %
d.	Self-managed teams, the most advanced type of TQM team, manage and improve their specific processes. N=1202	29 %	71 %
c.	Quality circles which have been integrated into the TQM effort.	16 %	85 %

e. How many of all the individuals at your installation are currently involved in TQM activities, such as, TQM facilitation. Quality Councils, TQM teams, or teaching? (ENTER NUMBER. IF NONE, ENTER ZERO "0". IF NECESSARY, AN ESTIMATION WILL SUFFICE.)

N=57,836 Managers and Supervisors

N=147,810 Non-Supervisory Employees



IV. Benefits

14. Thinking about those units at your installation where TQM has been implemented, would you say it has had a positive impact, no impact, or a negative impact on the following organizational performance indicators? (CRECK ONE BOX IN EACH ROW.)

			Very positive	Somewhat positive	No impact	Somewhat negative	Very negative	Too early to
	Organizational Performance Indicators		(1)	(2)	(3)	(4)	(5)	judge (6)
a.	Productivity/Efficiency	N=1360	19 %	44 %	3 %	1 %	•	33 %
b.	Reduction in the cost of business	f doing N=1358	11 %	34 %	13 %	2 %	•	40 %
c.	Quality of products/serv	vices N=1360	22 %	43 %	3 %	•	•	32 %
d.	Overall service to the customer	N=13 56	26 %	39 %	3 %	•	•	32 %
¢.	Customer satisfaction	N=1357	22 %	38 %	4 %	•	· -	36 %
f.	Timeliness	N=1355	18 %	42 %	6 %	1 %	•	33 %
g.	Other - Specify:	<u>N</u> =124	43 %	17 %	2 %	0 %	0 %	38 %
		N=32	44 %	16 %	3 %	6 %	3 %	28 %

^{*} Less than 1 percent.



15. Thinking about those units at your installation where TQM has been implemented, to what extent, if at all, have the total quality management activities implemented in these units had a positive impact on the following internal conditions? (CHECK ONE BOX IN EACH ROW.)

:	Internal Conditions	To a very great extent (1)	To a great extent (2)	To a moderate extent (3)	To some extent (4)	To little or no extent (5)	Too early to judge (6)
a.	Improved timeliness of internal processes. N=1357	5 %	14 %	25 %	18 %	4 %	34 %
b.	Increase in efficiency/productivity. N=1355	4 %	14 %	25 %	20 %	3 %	34 %
c.	Improved implementation of technology. N=1348	3 %	9 %	19 %	17 %	11 %	42 %
d.	Change to a more participatory management style. N=1355	6 %	16 %	23 %	25 %	6 %	
c.	Improved labor-management relations. N=1315	4 %,	10 %	17 %	19 %	15 %	34 %
f.	Movement of decision-making authority to a lower organizational level.					4	
	N=1355	3 %	10 %	22 %	25 %	12 %	28 %
g.	Improvements in group process and problem-solving skills, N≈1357	8 %	21 %	27 %	20 %	2 %	22 %
h.	An increase or improvement in communication throughout the installation. N=1355	7 %	20 %	25 %	22 %	4 %	22 %
i.	Improvements in management decision making due to availability of more information. N=1356	4 %	15 %	23 %	21 %	7 %	30 %
j.	Improvements in employee morale. N=1355	5 %	13 %	21 %	24 %	9 %	29 %
k.	An improved ability of the installation to adapt to change. N=1352	4 %	12 %	23 %	19 %	8 %	35 %
1.	Enhanced attention to customers' requirements. N=1355	9 %	22 %	25 %	17 %	3 %	23 %
m.	Ability to achieve quality improvements in performance during a period of resource reduction. N=1351	4 %	13 %	18 %	18 %	1%	40 %
n.	Other - Please specify:		9 %	5 %	5 %	5 %	68 %
	N=19	+	5 %	5 %	5 %	11 %	68 %



13 %

v	Role of Central	Management	Agencies	in the	implementation	οî	TQ
٧.	Role of Central	management	Agencies	TI TIE	Hibicilicitation	VŁ	

16.	Are you aware	of the	existence	of the	Federal	Quality	Institute	(FQI)?	(CHECK	ONE.)
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N=2245

71 % 1. Yes ---> (CONTINUE WITH QUESTION 17.)

29 % 2. No ---> (SKIP TO QUESTION 21 ON PAGE 20.)

17. Are you familiar with FQI's mission? (CHECK ONE.)

N=1579

22 % 1. Very familiar

65 % 2. Somewhat familiar

3. Not familiar at all

^{18.} The following is a list of the services provided by the Federal Quality Institute. For each of the services listed, please indicate whether you are aware they provide the service. (CHECK ONE BOX FOR EACH SERVICE.)

Services Provided by FQI		Yes, I am aware they provide this service (1)	No, I was not aware they provide this service (2)
Cochnical Assistance			
a. Executive level awareness seminars	N=1569	82 %	18 %
o. Readiness assessments	N=1564	49 %	51 %
e. Start-up services	N=1565	60 %	40 %
i. Model projects	N=1562	50 %	50 %
. List of vendors from the Federal Supply Schedule	N=1558	62 %	38 %
Research and Poblications			
a. Handbook series	N=1563	63 %	38 %
O. Quality improvement prototypes (e.g., case studies)	N=1564	59 %	41 %
. Federal Quality News	N=1567	64 %	36 %
Information Conter			
a. Electronic bulletin board	N=1565	36 %	64 %
b. Federal TQM Documents data base	N=1562	37 %	63 %
c. Assistance starting own information center	N=1563	30 %	70 %
d. Self-service information centers	N=1561	27 %	73 %

19. If you used any of these services provided by FQL how satisfied or dissatisfied were you with the service? (CHECK ONE BOX IN EACH ROW. IF YOU DID NOT USE A PARTICULAR SERVICE, PLEASE CHECK BOX 1 "DID NOT USE SERVICE.)

JERVICE.)						
	Did not use this service	Very satisfied	Generally satisfied	Neither satisfied nor	Generally dissatisfied	Very dissatisfied
Services Provided by FQ1	(1)	(2)	(3)	dissatisfied (4)	(5)	(6)
Technical Assistance						
a. Executive level awareness seminars N=1508	83 %	8 %	8 %	1 %	•	•
b. Readiness assessments N=1502	96 %	2 %	2 %	•	0 %	0 %
c. Start-up services N=1504	93 %	3 %	3 %	1 %	•	0 %
d. Model projects N=1499	96 %	2 %	2 %	1 %	•	0 %
e. List of vendors from the Federal Supply Schedule N=1505	76 %	8 %	10 %	5 %	1 %	•
Research and Publications				,		
a. Handbook series N=1504	75,%	11 %	11 %	2 %	*	•
b. Quality improvement prototypes (e.g., case studies) N=1505	81 %	8 %	9 %	2 %	•	•
c. Federal Quality News N=1506	74 %	10 %	12 %	4 %	•	•
Information Center						
a. Electronic bulletin board N=1500	94 %	2 %	2 %	2 %	1 %	•
b. Federal TQM Documents data base N=150	94 %	2 %	2 %	2 %	•	0 %
c. Assistance starting own information center N=150	1 96 %	1 %	2 %	1 %	•	0 %
d. Self-service information centers N=149	1	2 %	1 %	1 %	•	0 %

* Less than 1 percent.

20. From which installation	th of the following federal agencies ? (CHECK ONE BOX IN EACH?	have you ROW.)	sought or obt	ained ass	istance in he	aping to	implement IQM ax yo
N=1449	a. OPM (Other than FQI)	23 %	1. 🗆 Yes	71 %	2. 🗀 No	5 %	3. Do not know
N=1401	b. GSA	8 %	1. 🗆 Yes	86 %	2. 🗆 No	6 %	3. Do not know
N=1391	c. OMB	4 %	1. 🗆 Yes	90 %	2. 🗆 No	7 %	3. Do not know
	d. Any other agency? - Please sp	pecify:					



VI. Why Organizations Do Not Implement TQM

NOTE: The following question (#21) should only be answered if your installation never attempted to implement TQM. All other respondents should go to question 22.

21.	If you have never attempted to implement TQM, please list up to five of the major barriers that you believe prevented the implementation of TQM at your installation. (You may wish to refer to the list of barriers in question 9 on pages 11, 12, 13).							

22. If you have any comments about any issue related to TQM, please use the space below. If necessary, you may use additional sheets.

Thank you for your assistance.

Please return your completed questionnaire in the enclosed pre-addressed envelope.

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